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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|---|-------------|----------------------|---------------------|------------------|
| 10/615,027 | 07/09/2003 | Osamu Hachuda | 1509.1034 | 8731 |
| 21171 | 7590 | 10/05/2004 | EXAMINER | |
| STAAS & HALSEY LLP SUITE 700 1201 NEW YORK AVENUE, N.W. WASHINGTON, DC 20005 | | | NGUYEN, PHUONGCHI T | |
| | | | ART UNIT | PAPER NUMBER |
| | | | 2833 | |

DATE MAILED: 10/05/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

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|------------------------------|--------------------------------------|---------------------------------------|--|
| Office Action Summary | Application No. 10/615,027 | Applicant(s) HACHUDA ET AL. | |
| | Examiner Phuongchi Nguyen | Art Unit 2833 | |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-17 is/are pending in the application.
 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 1-10 and 17 is/are allowed.
- 6) ☒ Claim(s) 11-12 and 15-16 is/are rejected.
- 7) ☒ Claim(s) 13 and 14 is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 07 August 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s)/Mail Date. ____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date ____. | 6) <input type="checkbox"/> Other: ____. |

DETAILED ACTION***Claim Rejections - 35 USC § 102***

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 11-12 and 15-16 are rejected under 35 U.S.C. 102(e) as being anticipated by Saijo et al (US6503089B2).

In regarding to claim 11, Saijo et al discloses (figure 1) a socket for an electrical part (22) having a socket body (of 25) to which the electrical part (22) is accommodated and to which a contact pin (27) is arranged to electrically connect a terminal (22b) of the electrical part (22) to a printed circuit board (P), the socket body (of 25) is provided with a frame-shaped base member (25), a contact pin assembly (27+28), including the contact pin (27), mounted to be detachably thereto, and a lock means (23b, 31, 36) for securing the contact pin assembly (27+28) to the base member (25), the lock means (23b, 31, 36) being operated from an upper side (of the socket body of 25) thereof.

In regarding to claim 12, Saijo et al discloses the socket for an electrical part wherein the contact pin assembly (28+27) includes a plurality of plates (25, 24) disposed vertically with a predetermined (certain) distance, and the lock means (31) is disposed between the vertically arranged plates (25, 24) and includes a lock member (36) to be rotatable from the upper side thereof, the lock member (36) being provided with an engagement piece (23b) projecting substantially horizontally, and the engagement piece (23b) being engaged with an engaging portion (23) formed to the base member (24) when the lock member (36) is rotated (figure 1).

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In regarding to claim 15, Saijo et al further discloses the socket having contact pin assembly (28+27) being inserted, to be detachable, from an upper portion with respect to the base member (24).

In regarding to claim 16, Saijo et al discloses the socket for an electrical part wherein the contact pin assembly (27+28) is mounted to a predetermined position with respect to the printed circuit board (P) and the base member (24) is arranged to be horizontally adjustable (during assembly) in position with respect to the contact pin assembly (27+28) (figure 1).

Allowable Subject Matter

3. Claims 1-10 and 17 are allowed.
4. Claims 13-14 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
5. The following is a statement of reasons for the indication of allowable subject matter:

In regarding to claims 1 and 17, none of prior teaches or suggests a contact pin mounted to a socket body into which an electrical part is accommodated and adapted to electrically connect a terminal of the electrical part to a printed circuit board, a spring urging the plunger and the bottom contact portion to be separated from each other; wherein the plunger and the bottom contact portion is formed by press-working a plate member and provided with a connection portion being relatively movable.

In regarding to claim 13, the prior art fail to teach or suggest the socket for an electrical part wherein the top, middle and bottom plates are arranged with a predetermined distance, with the middle plate being urged upward. There is no reason to reject claim 13 under the combination between Saijo et al (US6503089B2) and Fukunaga et al (US6296505B1), because the contact pin of Saijo et al cannot adaptable with the plurality plates of Fukunaga et al.

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6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Watanabe et al (US6464511), Hoshino et al (US6270356), Fukunaga et al (US6296505) and Yamada Takayuki (US6743043) are cited to show in the contact pin for the socket assembly having an IC package, plunger and spring.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phuongchi Nguyen whose telephone number is (571) 272-2012. The examiner can normally be reached on 8:00AM-4:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paula Bradley can be reached on (571) 272-2800 ext 33. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

PCN

September 14, 2004


ROSS GUSHI
PRIMARY EXAMINER